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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09:749,661	12/28/2000	Jed D. Griffin	2207/10491	8716

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EXAMINER

NGUYEN, PATRICIA T

ART UNIT	PAPER NUMBER
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2817

DATE MAILED: 08/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/749,661	GRIFFIN, JED D.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Patricia T. Nguyen	2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 4, 5, 8, 9, 13 and 14 is/are rejected.
- 7) ☒ Claim(s) 2, 3, 6, 7, 10-12 and 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 December 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                   | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                          | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4, 5</u> | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the N type load in claim 5, line 7; the first and second N type transistor in claim 9, lines 11 and 13; the P type and N type transistors in claim 12, lines 1 and 2 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. It appears that no drawing is corresponding to the connections of the circuit as claimed in the claims.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Objections***

Claims 5, 9, 12 are objected to because of the following informalities:

The N type load in claim 5, line 7; the first and second N type transistor in claim 9, lines 11 and 13; the P type and N type transistors in claim 12, lines 1 and 2 have no support in the drawings or specification. It appears that no drawing or specification is corresponding to the connections of the circuit as claimed in the claims.

In claims 1, 5, 9 the N-type load and P-type load have been using the same terminology for different elements. For example, claim 1, lines 6 and 7, an N-type load P-type load are different loads than the ones in line 9.

Appropriate correction is required.

***Specification***

The disclosure is objected to because of the following informalities:

It appears that the specification does not support the corresponding connections of the circuit as claimed in the claims 5, 9, and 12 such as the N type load in claim 5, line 7; the first and second N type transistor in claim 9, lines 11 and 13; the P type and N type transistors in claim 12, lines 1 and 2.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-5, 8, 9, 13, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Shin et al., U.S. Patent # 5,703,532.

Fig. 2 of Shin et al. discloses a circuit comprising: For claim 1, transistors 22, 42 can be read as first and second P type input amplifiers wherein input A-in can be read as a non-inverted differential voltage signal, input B-in can be read as an inverted differential voltage signal; transistors 21, 41 can be read as first and second N type input amplifiers; transistors 27, 28 can be read a first output amplifier wherein transistor 24 can be read as an N type load and transistor 25 can be read as a P type load; transistors 47, 48 can be read as a second output amplifier wherein transistor 44 can be read as an N type load and transistor 45 can be read as a P type load.

Regarding claims 4, 8, 14, see spec. col. 9, lines 4-40 and col. 8, lines 11-36.

Regarding claim 5, transistors 22, 42 can be read as first and second P type input amplifiers wherein input A-in can be read as a non-inverted differential voltage signal, input B-in can be read as an inverted differential voltage signal; transistors 21, 41 can be read as first and second N type input amplifiers; transistors 27, 28 can be read a first output amplifier wherein transistor 24 can be read as an N type load and transistor 26 can be read as an N type load; transistors 47, 48 can be read as a second output amplifier wherein transistor 44 can be read as an N type load and transistor 46 can be read as an N type load.

Regarding claim 9, transistors 22, 42 can be read as first and second P type input amplifiers wherein input A-in can be read as a non-inverted differential voltage signal, input B-in can be read as an inverted differential voltage signal; transistors 21, 41 can be read as first and second N type input amplifiers; transistors 27, 28 can be read a first output amplifier; transistors 24, 44 can be read as a first N type load and a second N type load; transistors 25, 45 can be read as a first P type load and a second P type load; transistor 23 can be read as a first intermediate transistor; transistors 47, 48 can be read as a second output amplifier wherein transistor 44 can be read as an N type load and transistor 46 can be read as an N type load.

Regarding claim 13, see spec. col. 1, lines 20-27.

***Allowable Subject Matter***

Claims 2, 3, 6, 7, 10, 11, 12, 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. patents # 6,429,735 of Kuo et al., # 4,377,789 of Hoover, # 3,991,380 of Pryor contain some limitations of the claimed invention. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia T. Nguyen whose telephone number is (703) 308-1927. The examiner can normally be reached on 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

PTN  
August 25, 2003

PATRICIA NGUYEN  
PRIMARY EXAMINER

*Patricia Nguyen*